

Applicant:

Steven D. Clark

Confirmation No.:

8607

Serial No: Filing Date:

10/625,352 July 23, 2003

Art Unit:

1722

Examiner:

Joseph S. Del Sole

Title:

LINEAR FLOW EQUALIZER FOR UNIFORM POLYMER

DISTRIBUTION IN A SPIN PACK OF A MELTSPINNING

APPARATUS

Atty Docket:

NOR-1119

Cincinnati, Ohio 45202

Date: January 5, 2006

Commissioner of Patents and Trademarks P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

DECLARATION UNDER RULE 131

I, Steven D. Clark (the inventor), being duly cautioned and swom, submit this Declaration in response to the Office Action dated September 19, 2005, and state:

That I am the inventor of the invention entitled "Linear Flow Equalizer for Uniform Polymer Distribution in a Spin Pack of a Meltspinning Apparatus" described and claimed in the application for Letters Patent of the United States, Serial No. 10/625,352, filed July 23, 2003 ('352 application);

That this is a Declaration under the provisions of Rule 131 and the rules of practice for the United States Patent Office in support of said '352 application;

That prior to December 31, 2002, the filing date of U.S. Patent Publication

Number 2004/0126454 in the name of Haynes et al., the invention described and claimed in the present application was reduced to practice in the United States of America;

That, as evidence of the reduction to practice of the invention described and

claimed in the '352 application, attached and incorporated into this Declaration are copies of original written records made by the undersigned inventor, bearing dates prior to December 31, 2002, but with said dates masked;

That the attached Exhibit includes engineering drawings of an apparatus for distributing thermoplastic material supplied from a plurality of liquid inlets in a cross-machine direction of a meltspinning apparatus that clearly demonstrate that such apparatus embodying the elements claimed in claims 1-24 of the '352 application, were reduced to practice by the undersigned inventor before December 31, 2002;

That the reduction to practice of the invention claimed in pending claims 1-24 of the '352 application is fully supported by the attached Exhibit, all acts having been performed in the United States of America before December 31, 2002, but with said dates now masked;

That the Exhibit demonstrates as follows:

That an apparatus for distributing thermoplastic material supplied from a plurality of liquid inlets in a cross-machine direction of a meltspinning apparatus was conceived of, made, and tested, and thus reduced to practice, before December 31, 2002;

That the apparatus, in one embodiment, included a first linear flow equalizer including a first plurality of flow passageways of substantially equal path length that extend in the cross-machine direction and in a downstream direction non-aligned with the cross-machine direction, said first plurality of flow passageways operating to divide a flow of a first thermoplastic material supplied from the plurality of liquid inlets into individual streams having a spaced relationship in the cross-machine direction; and a member disposed in the downstream direction from said first linear flow equalizer, said member having a surface oriented in the

cross-machine direction and positioned relative to said first plurality of flow passageways for merging the individual streams exiting from said first plurality of flow passageways to form a sheet of the first thermoplastic material;

That the apparatus, in one embodiment, included an inlet plate having a plurality of flow passageways for the thermoplastic material, the flow passageways being spaced substantially equidistantly from each other in the cross-machine direction; a first equalizer plate positioned in a downstream direction from said inlet plate and having a first plurality of elongated slots each centered about one of said plurality of flow passageways, each of said first plurality of elongated slots receiving a flow of the thermoplastic material from one of the flow passageways, and each of said first plurality of elongate slots extending in the cross-machine direction and including opposed closed ends substantially equidistant from one of said plurality of liquid passageways; a second equalizer plate positioned in the downstream direction from said first equalizer plate, said second equalizer plate having a first plurality of throughholes each substantially registered in alignment with one of said opposed closed ends of a corresponding one of said first plurality of elongated slots, each of said first plurality of throughholes receiving a flow of the thermoplastic material from one of said first plurality of slots, and said first and second equalizer plates cooperating to divide the flow of the thermoplastic material supplied from the plurality of flow passageways into individual streams having a spaced relationship in the cross-machine direction; and a member disposed in the downstream direction from said second equalizer plate, said member having a first surface oriented in the cross-machine direction and positioned for merging the individual streams exiting from said first plurality of throughholes to form a sheet of the first thermoplastic material.

Therefore, in summary, the attached Exhibit discloses and supports the reduction to practice of the apparatus for distributing thermoplastic material supplied from a plurality of liquid inlets in a cross-machine direction of a meltspinning apparatus that is the subject of and is claimed in Application Serial No. 10/625,352, all the acts of which occurred in the United States of America BEFORE December 31, 2002, and thus precede the effective filing date of U.S. Patent Publication Number 2004/0126454.

Further affiant saith naught.

Steven D. Clark

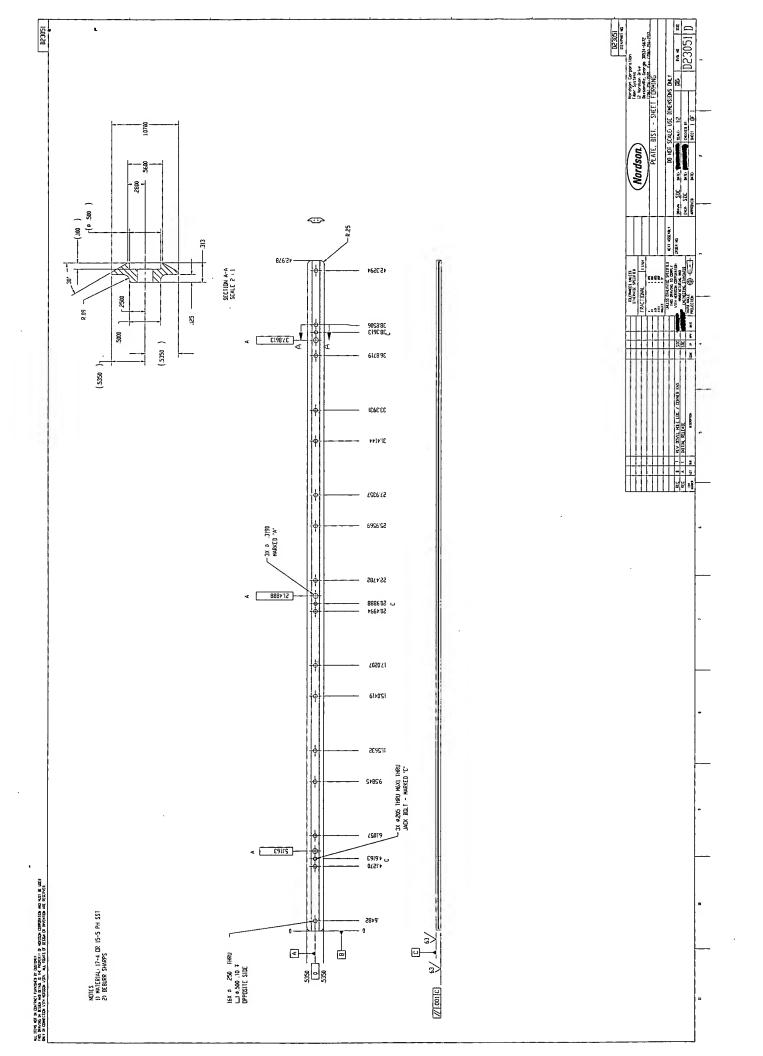
Date 1/5/2006

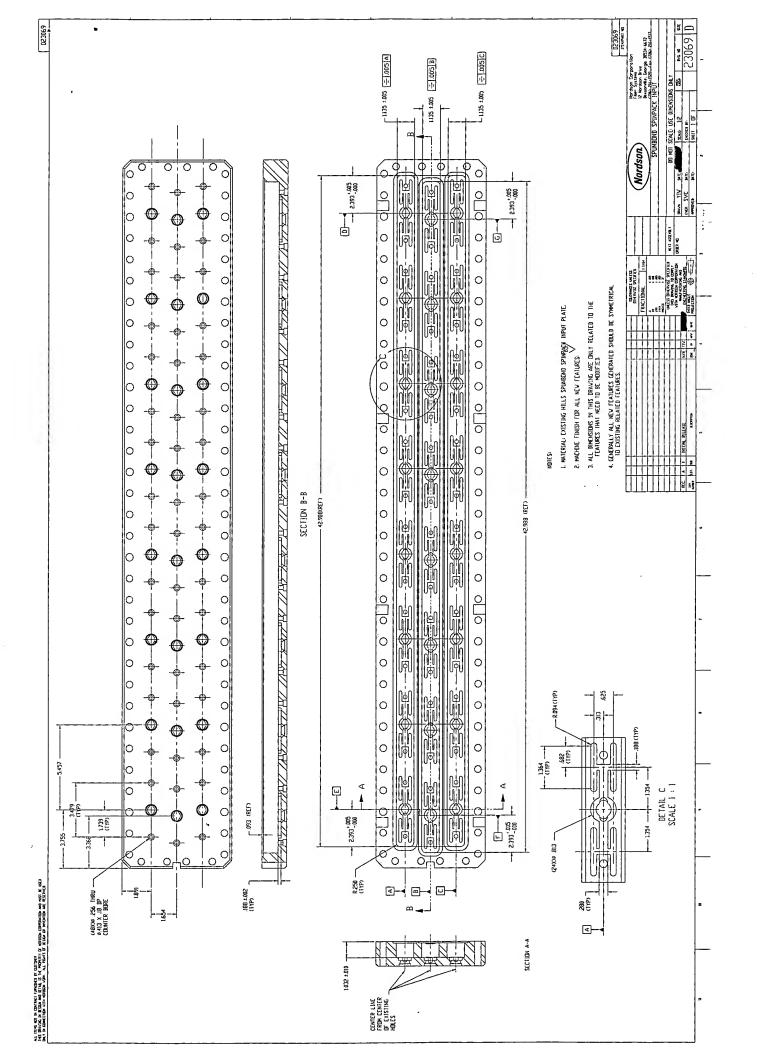
STATE OF GEORGIA

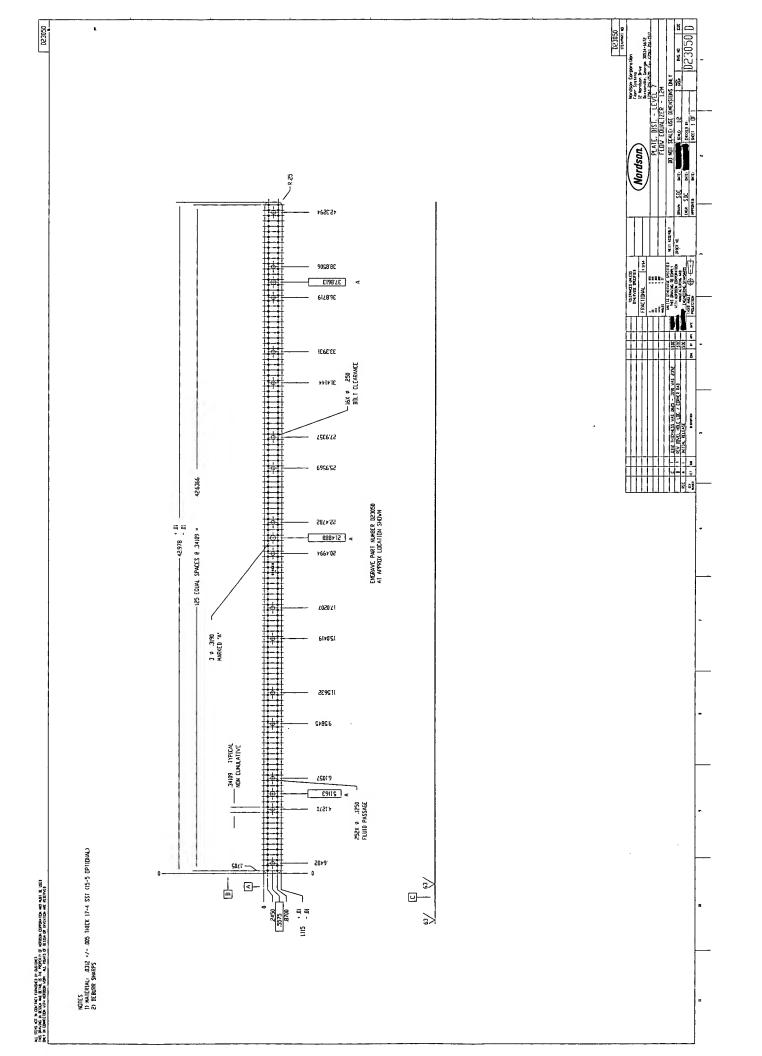
COUNTY OF LAWSON

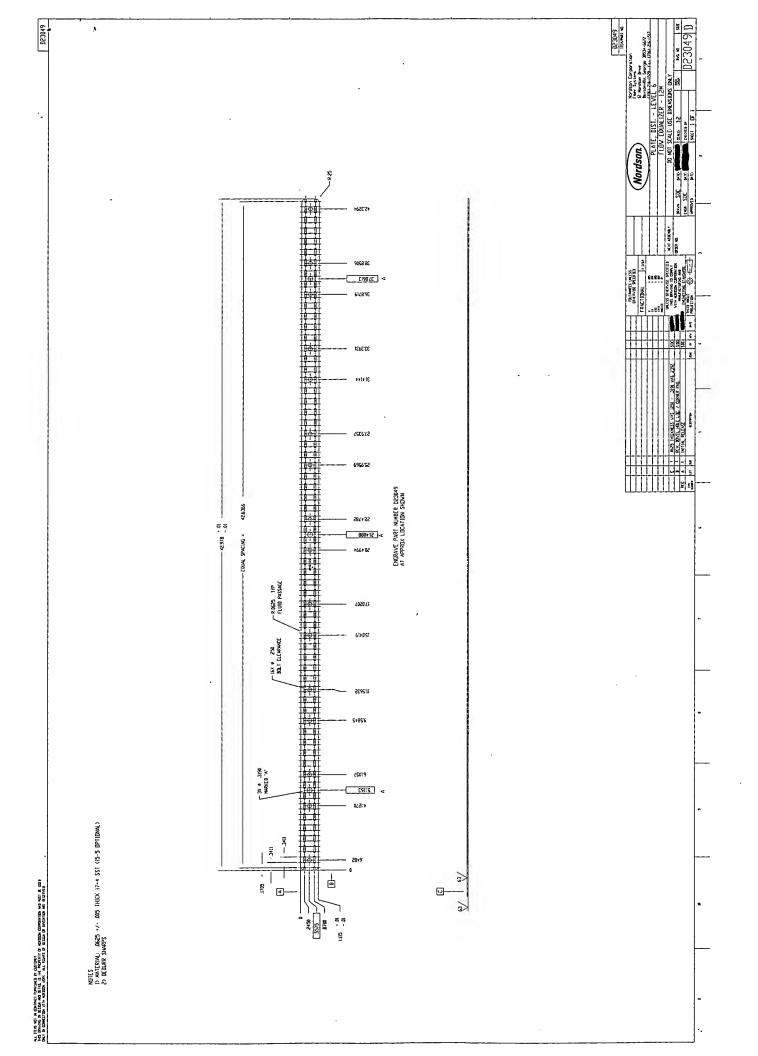
Sworn to and subscribed in my presence this

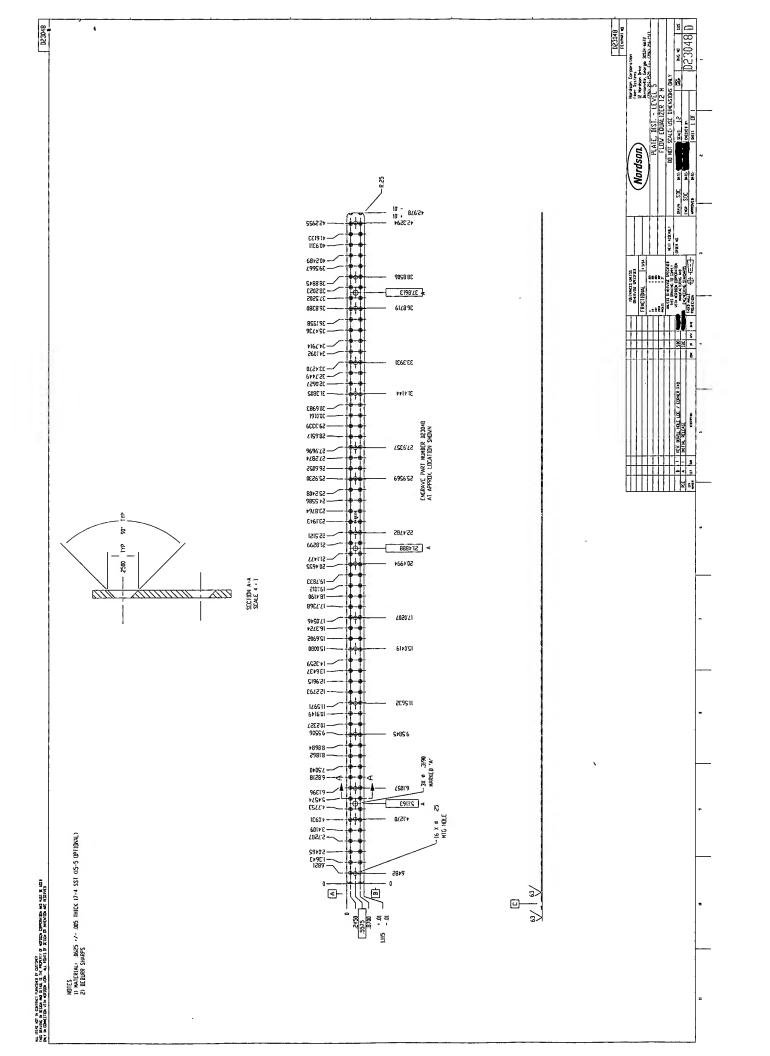
EXHIBIT

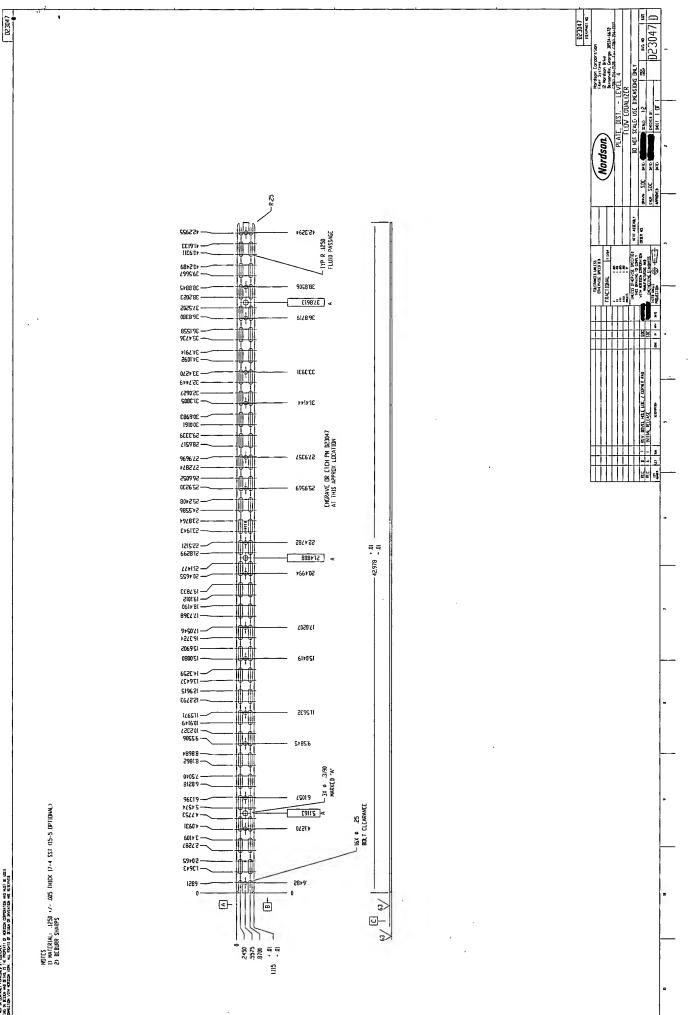




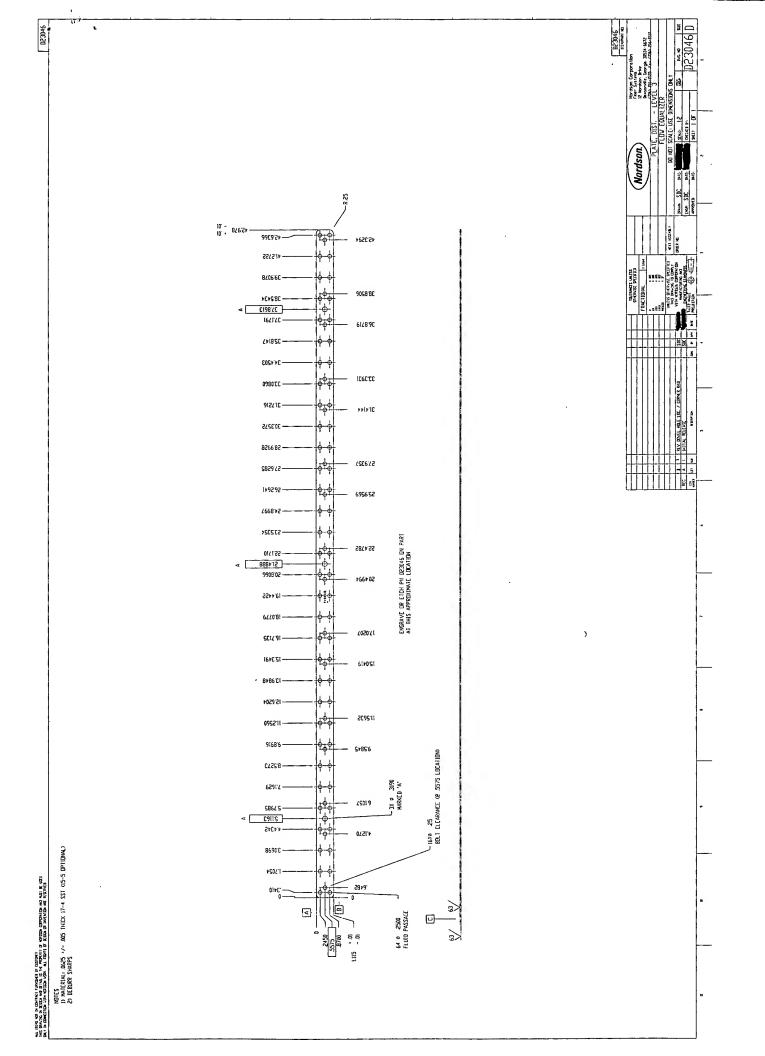


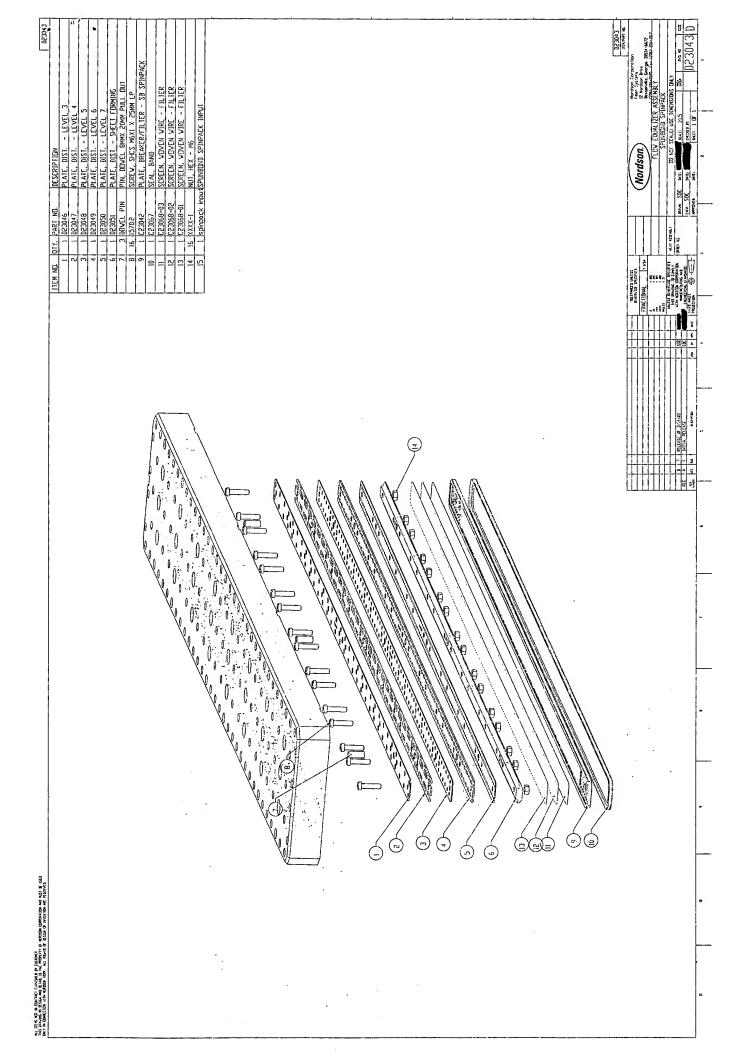


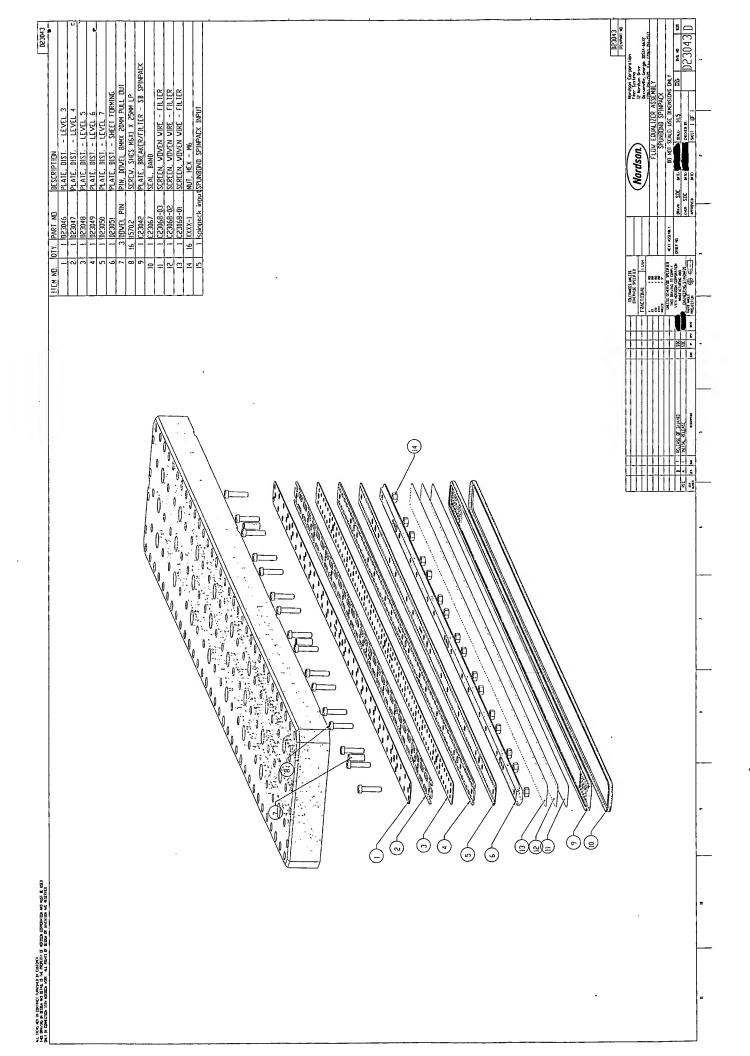


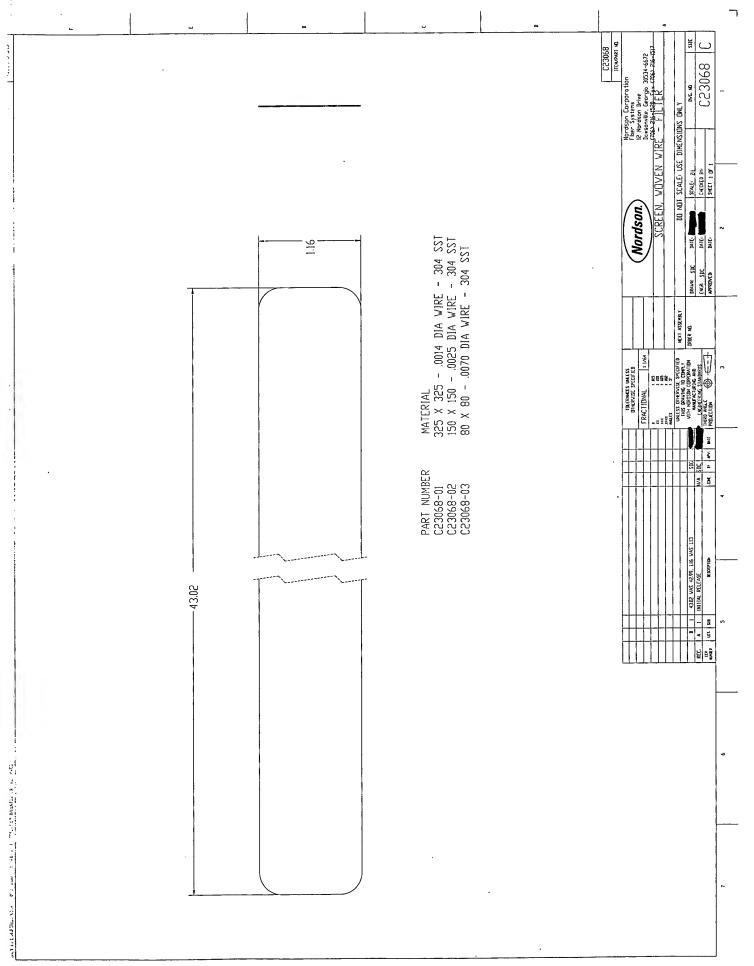


ALL HER GET IN EDITING FLANKER IN OLDSTONE CONTROL OF MAIN WE HELD WE WEREN TO THE STORES WHICH WE WEREN'T HE WEEL OF THE STORES WHICH WE WEREN'T HE WEREN

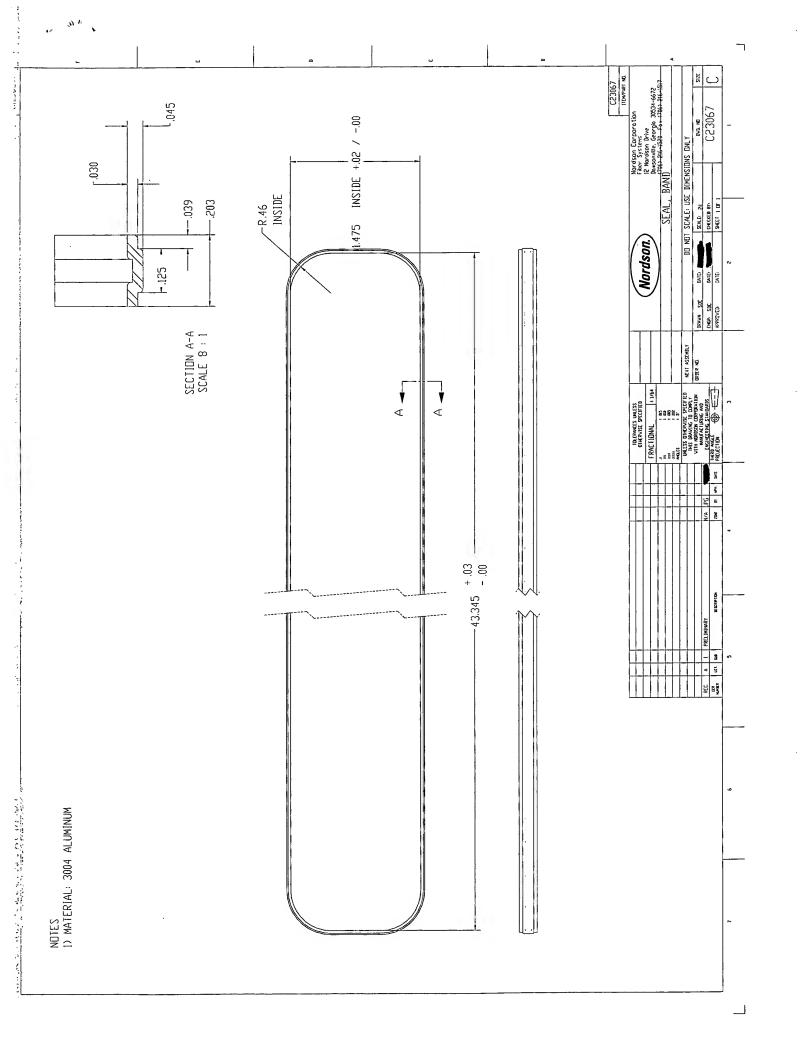


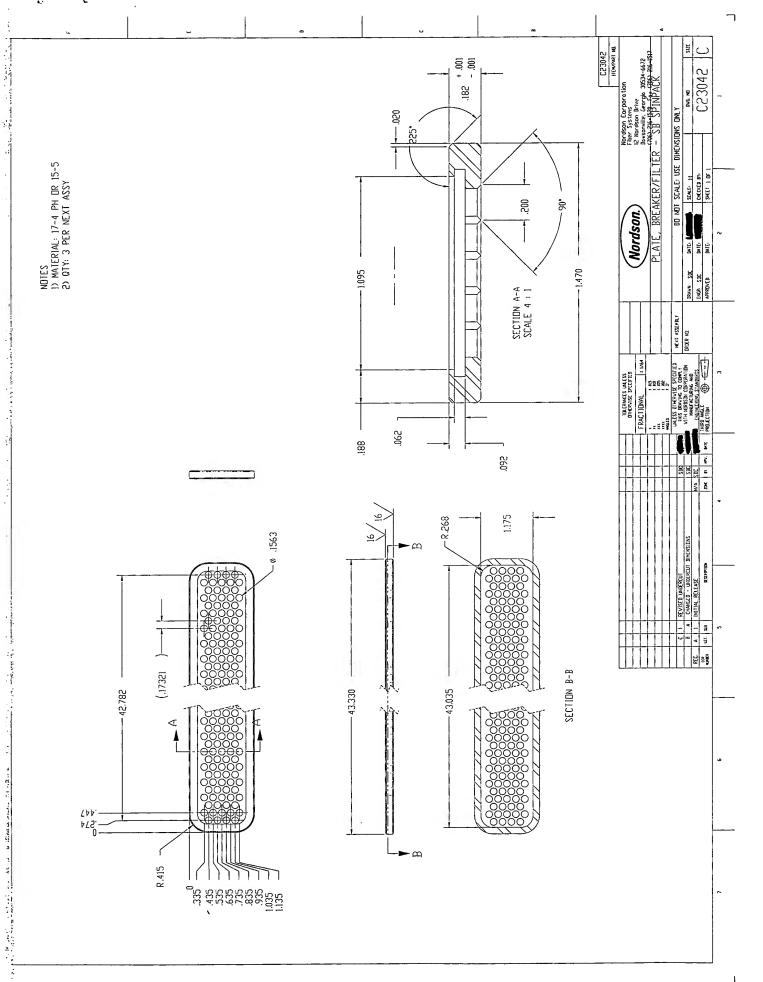






- 1





. A. A. .

3

This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

□ BLACK BORDERS
□ IMAGE CUT OFF AT TOP, BOTTOM OR SIDES
□ FADED TEXT OR DRAWING
□ BLURRED OR ILLEGIBLE TEXT OR DRAWING
□ SKEWED/SLANTED IMAGES
□ COLOR OR BLACK AND WHITE PHOTOGRAPHS
□ GRAY SCALE DOCUMENTS
□ LINES OR MARKS ON ORIGINAL DOCUMENT
□ REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

IMAGES ARE BEST AVAILABLE COPY.

OTHER: ___

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.